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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/830/118Source: 6/5/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

#17

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/830, ///S
attn: New Rules Case	s: Please disregard english "Alpha" headers, which were inserted by Pto Softwari
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9 Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section is required when <213> response is Unknown or is Artificial Sequence
11 Use of <220>	Sequence(s) 5 - 8 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/200

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Sequence listing <110> Kaneka Corporation <120> Process for producing coenzyme Q10 <130> T549/QX-GT2 <150> JP P1999-237561 <151> 1999-08-24 Doss Not Comply do not use unduline's Connected Diskette Needec see pp 1, 4-5 <211> 1653 <212> DNA <213> Saioella complicata <400> 1 ttttgtgggg tcgaaaagtc ggcacgggtg caggttcggc ttgagaccag taaaggctcg 60 gagattgagt tcaggacaaa gctttgatcc gtgaggtcta catcttcagc aaatcatttc 120 aaatccatat acc atg gcc tca cca gca ctg cgg ata cga agc atc agc 169 Met Ala Ser Pro Ala Leu Arg Ile Arg Ser Ile Ser tot oga toa ato goo tot otg oga tog gtt aco ota aga aca goo tog 217 Ser Arg Ser Ile Ala Ser Leu Arg Ser Val Thr Leu Arg Thr Ala Ser 15 qca cct tca tta cqa cta aga tgt acc cog acg ago cgg cca tcg agt 265 Ala Pro Ser Leu Arg Leu Arg Cys Thr Pro Thr Ser Arg Pro Ser Ser 30 35 tca tgg get get gtg tct tcg gcg tcg aga ctg gtt gag cct gat 313 Ser Trp Ala Ala Ala Val Ser Ser Ala Ser Arg Leu Val Glu Pro Asp 45 50 ccg aat caa cct ctc atc aat ccg ctc aac ttg gtc ggt eec gag atg 361 Pro Asn Gln Pro Leu Ile Asn Pro Leu Asn Leu Val Gly Pro Glu Met 70 tca aat ctt aca tcc aac atc cga tct ctc ctc ggt tca gga cac cct 409 Ser Asn Leu Thr Ser Asn Ile Arg Ser Leu Leu Gly Ser Gly His Pro tct ctc gac act gtc get aaa tac tat gtt cag tct gag gga aag cat 457 Ser Leu Asp Thr Val Ala Lys Tyr Tyr Val Gln Ser Glu Gly Lys His

100

115

130

att cgt cog ctc atg gta ctg ctg atg get cag gcg acg gag gtt gcg

Ile Arg Pro Leu Met Val Leu Leu Met Ala Gln Ala Thr Glu Val Ala

cca aaa gtt cag ggt tgg gag aag gtc gtg gag gtt ccg gtg aac gag Pro Lys Val Gln Gly Trp Glu Lys Val Val Glu Val Pro Val Asn Glu

120

135

95

110

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. •				Pro	cca Pro 145				Asn					Asp			601			
					gga Gly					Asp					Gly		649			
					ctc Leu												697			
					gca Ala								Ile				745			
					aac Asn												793			
					get Ala 225				Leu								841			
					cgc Arg			Glu					Léu				889			
	att Ile	Ala	aac Asn 255	ttg Leu	gtt Val	gag Glu 260	Gly	gag Glu	ttc Phe	atg Met	cag Gln	ttg Leu	aaa Lys 265	aat Asn	act Thr	gtt Val	937			
	gat Asp	gat Asp 270	gcg Ala	att Ile	gag Glu	get Ala	acg Thr 275	gcg Ala	acg Thr	çag Gln	gaa Glu	acg Thr 280	ttc Phe	gat Asp	tac Tyr	tat Tyr	985			
					tac Tyr												1033			
					ctt Leu 305						Pro						1081			
					gga Gly												1129		·	
					tac Tyr				Ālā								1177			
			Asp		cag Gln			Leu					Ala				1225			
					gcc Ala				Pro								1273			
								÷	٠.											

gac cca gga gac gtc gag cgt gca cgc gag ttg gtc gag aaa agt gat Asp Pro Gly Asp Val Glu Arg Ala Arg Glu Leu Val Glu Lys Ser Asp 390 385 gga ttg gag aag acg aga gcc ttg gcg gag gag tat gcc cag aag gcg Gly Leu Glu Lys Thr Arg Ala Leu Ala Glu Glu Tyr Ala Gln Lys Ala ttg gat gca att cgg acg ttc ccg gag agt cog gca cgg aag get ttg Leu Asp Ala Ile Arg Thr Phe Pro Glu Ser Pro Ala Arg Lys Ala Leu 415 420 425 gag cag ttg acg gac aag gtg ttg act agg tca aga taggaattcgagct 1467 Glu Gln Leu Thr Asp Lys Val Leu Thr Arg Ser Arg 430 435 eggtaceegg ggateeteta gagtegaeet geaggeatge aagettgget gttttggegg 1527 atqaqaqaaq attttcaqcc tqatacaqat taaatcaqaa cqcaqaaqcq qtctqataaa 1587 acagaatttg cctggcggca gtagcgcggt ggtcccacct gaccccatgc cgaactcaga 1647 agtgaa 1653 <210> 2 <211> 440 <212> PRT <213> Saioella complicata <400> 2 Met Ala Ser Pro Ala Leu Arg Ile Arg Ser Ile Ser Ser Arg Ser 10 Ile Ala Ser Leu Arg Ser Val Thr Leu Arg Thr Ala Ser Ala Pro 25 Ser Leu Arg Leu Arg Cys Thr Pro Thr Ser Arg Pro Ser Ser Ser 40 Trp Ala Ala Ala Val Ser Ser Ala Ser Arg Leu Val Glu Pro Asp 50 55 Pro Asn Gln Pro Leu Ile Asn Pro Leu Asn Leu Val Gly Pro Glu 7.0 65 Met Ser Asn Leu Thr Ser Asn Ile Arg Ser Leu Leu Gly Ser Gly 80 His Pro Ser Leu Asp Thr Val Ala Lys Tyr Tyr Val Gln Ser Glu 95 100 Gly Lys His Ile Arg Pro Leu Met Val Leu Leu Met Ala Gln Ala 110 115 Thr Glu Val Ala Pro Lys Val Gln Gly Trp Glu Lys Val Val Glu 125 130 Val Pro Val Asn Glu Gly Leu Ala Pro Pro Glu Val Leu Asn Asp 140 145 150 Lys Asn Pro Asp Met Met Asn Met Arg Ser Gly Pro Leu Thr Lys 155 160 Asp Gly Glu Ile Glu Gly Gln Thr Ser Asn Ile Leu Ala Ser Gln 170 175 Arg Arg Leu Ala Glu Ile Thr Glu Met Ile His Ala Ala Ser Leu 190 185 . . , . . Leu His Asp Asp Val Ile Asp Ala Ser Glu Thr Arg Arg Asn Ala 200 205 Pro Ser Gly Asn Gln Ala Phe Gly Asn Lys Met Ala Ile Leu Ala 215 220 225

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Leu Val Glu Lys Ser Asp Gly Leu Glu Lys Thr Arg Ala Leu Ala
Glu Glu Tyr Ala Gln Lys Ala Leu Asp Ala Ile Arg Thr Phe Pro
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                            2 415
                                          . 30,00
Glu Ser Pro Ala Arg Lys Ala Leu Glu Gln Leu Thr Asp Lys Val
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